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25 April 1960

MEMORANDUM FOR: Chief, Technical Services Division

SUBJECT

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1. Description of the Project

A study and evaluation of commercially available signal flares of thirty minute burning time for air observation at night under various conditions.

2. Purpose of the Project

A dispatch from the field has requested information regarding commercially available DZ markers. As a preliminary step a study and evaluation of railroad signal flares, both red and yellow, of 30 minute burning duration will be tested.

Initially, samples of flares will be purchased from various manufacturers and tested under ambient conditions. A notation will be made of ease of ignition and burning time. Further samples will then be purchased on the basis of this initial investigation.

The new samples will then be subjected to either hot or cold soaking conditions for a period of five days. These temperatures will be 110°F and -20°F. After this five day period the samples will immediately be taken out and tested under the same general conditions as the original samples.

The last group of samples will be tested at night and viewed from the air. The relative visibility from the air of both colors, at different heights and directions, will be determined. An attempt will be made to increase the visibility from the air and decrease the visibility from ground observation.

3. Recommended Contractor

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4. Support Requirements

There are no support requirements.

5. Total Cost

The estimated total cost of the work is \$3,452.00, including fixed fee. A six months' working period will be used in this study. Charges are to be made against Allotment Number 0525-1009-4901.

6. Security Information

[Redacted]

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7. Project Engineer

The project engineer for this program is [Redacted], Room 210, West Outbuilding, extension [Redacted]

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[Redacted]

Chief
TSD/Engineering Branch

DD/P/TSD/EB/AIA:mc

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